

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/925,179

DATE: 08/21/2001
TIME: 11:53:57

Input Set : A:\P0718P2C1D1C1US.txt
Output Set: N:\CRF3\08162001\I925179.raw

ENTERED

ENTERED

3 <110> APPLICANT: Jardieu, Paula M.
4 Presta, Leonard G.
6 <120> TITLE OF INVENTION: Anti-IgE Antibodies (as amended)
8 <130> FILE REFERENCE: P0718P2C1D1C1US
10 <140> CURRENT APPLICATION NUMBER: US/09/925,179
10 <141> CURRENT FILING DATE: 2001-08-08
12 <150> PRIOR APPLICATION NUMBER: US 08/466,163
13 <151> PRIOR FILING DATE: 1995-06-06
15 <150> PRIOR APPLICATION NUMBER: US 08/405,617
16 <151> PRIOR FILING DATE: 1995-03-15
18 <150> PRIOR APPLICATION NUMBER: US 08/185,899
19 <151> PRIOR FILING DATE: 1994-01-26
21 <150> PRIOR APPLICATION NUMBER: PCT/US92/06860
22 <151> PRIOR FILING DATE: 1992-08-14
24 <150> PRIOR APPLICATION NUMBER: US 07/879,495
25 <151> PRIOR FILING DATE: 1992-05-07
27 <150> PRIOR APPLICATION NUMBER: US 07/744,768
28 <151> PRIOR FILING DATE: 1991-08-14
30 <160> NUMBER OF SEQ ID NOS: 68
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33 <211> LENGTH: 109
34 <212> TYPE: PRT
35 <213> ORGANISM: Homo sapiens
37 <400> SEQUENCE: 1
38 Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser
39 1 5 10 15
41 Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Cys Leu
42 20 25 30
44 Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp
45 35 40 45
47 Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu
48 50 55 60
50 Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro
51 65 70 75
53 Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Gln Cys Arg Val
54 80 85 90
56 Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys
57 95 100 105
59 Thr Ser Gly Pro
62 <210> SEQ ID NO: 2
63 <211> LENGTH: 111
64 <212> TYPE: PRT
65 <213> ORGANISM: Mus musculus
67 <400> SEQUENCE: 2
68 Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu
69 1 5 10 15
71 Gly Gln Arg Ala Thr Ile Ser Cys Lys Ala Ser Gln Ser Val Asp

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72          20          25          30
74 Tyr Asp Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly
75          35          40          45
77 Gln Pro Pro Ile Leu Leu Ile Tyr Ala Ala Ser Tyr Leu Gly Ser
78          50          55          60
80 Glu Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
81          65          70          75
83 Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Phe
84          80          85          90
86 Tyr Cys Gln Gln Ser His Glu Asp Pro Tyr Thr Phe Gly Ala Gly
87          95          100          105
89 Thr Lys Leu Glu Ile Lys
90          110
92 <210> SEQ ID NO: 3
93 <211> LENGTH: 134
94 <212> TYPE: PRT
95 <213> ORGANISM: Mus musculus
97 <400> SEQUENCE: 3
98 Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser
99 1          5          10          15
101 Gln Ser Leu Ser Leu Ala Cys Ser Val Thr Gly Tyr Ser Ile Thr
102          20          25          30
104 Ser Gly Tyr Ser Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys
105          35          40          45
107 Leu Glu Trp Met Gly Ser Ile Thr Tyr Asp Gly Ser Ser Asn Tyr
108          50          55          60
110 Asn Pro Ser Leu Lys Asn Arg Ile Ser Val Thr Arg Asp Thr Ser
111          65          70          75
113 Gln Asn Gln Phe Phe Leu Lys Leu Asn Ser Ala Thr Ala Glu Asp
114          80          85          90
116 Thr Ala Thr Tyr Tyr Cys Ala Arg Gly Ser His Tyr Phe Gly His
117          95          100          105
119 Trp His Phe Ala Val Trp Gly Ala Gly Thr Thr Val Thr Val Ser
120          110          115          120
122 Ser Ala Lys Thr Thr Pro Pro Ser Val Tyr Pro Leu Ala Arg
123          125          130
125 <210> SEQ ID NO: 4
126 <211> LENGTH: 124
127 <212> TYPE: PRT
128 <213> ORGANISM: Mus musculus
130 <400> SEQUENCE: 4
131 Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val
132 1          5          10          15
134 Gly Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln Asn Val Ser
135          20          25          30
137 Ser Asn Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys
138          35          40          45
140 Ala Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp
141          50          55          60

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143 Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
144           65                      70                      75
146 Ser Asn Val Gln Ser Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln
147           80                      85                      90
149 Tyr Tyr Thr Tyr Pro Leu Tyr Thr Phe Gly Gly Gly Thr Lys Leu
150           95                      100                     105
152 Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro
153          110                      115                     120
155 Pro Ser Thr Arg
158 <210> SEQ ID NO: 5
159 <211> LENGTH: 130
160 <212> TYPE: PRT
161 <213> ORGANISM: Mus musculus
163 <400> SEQUENCE: 5
164 Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser
165   1           5                      10                      15
167 Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Thr Ile Thr
168           20                      25                      30
170 Ser Asp Asn Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys
171           35                      40                      45
173 Leu Glu Trp Met Gly Tyr Ile Asn His Ser Gly Thr Thr Ser Tyr
174           50                      55                      60
176 Asn Pro Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser
177           65                      70                      75
179 Lys Asn Gln Phe Phe Leu Gln Leu Asn Ser Val Thr Thr Glu Asp
180           80                      85                      90
182 Thr Ala Thr Tyr Tyr Cys Ala Trp Val Val Ala Tyr Ala Met Asp
183           95                      100                     105
185 Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr
186          110                      115                     120
188 Thr Pro Pro Ser Val Tyr Pro Leu Ala Arg
189          125                      130
191 <210> SEQ ID NO: 6
192 <211> LENGTH: 106
193 <212> TYPE: PRT
194 <213> ORGANISM: Mus musculus
196 <400> SEQUENCE: 6
197 Asp Ile Gln Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu
198   1           5                      10                      15
200 Gly Gln Arg Ala Thr Ile Ser Cys Lys Ala Ser Gln Ser Val Asp
201           20                      25                      30
203 Tyr Asp Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly
204           35                      40                      45
206 Gln Pro Pro Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Glu Ser
207           50                      55                      60
209 Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
210           65                      70                      75
212 Thr Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr
213          80                      85                      90

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215 Tyr Cys Gln Gln Ser Asn Glu Asp Pro Phe Thr Phe Gly Ala Gly
216          95          100          105
218 Thr
221 <210> SEQ ID NO: 7
222 <211> LENGTH: 137
223 <212> TYPE: PRT
224 <213> ORGANISM: Mus musculus
226 <400> SEQUENCE: 7
227 Asp Val Gln His Gln Glu Ser Glu Pro Asp Leu Val Lys Pro Ser
228 1          5          10          15
230 Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
231          20          25          30
233 Ser Gly Tyr Asn Arg His Trp Ile Arg Gln Phe Pro Gly Asn Lys
234          35          40          45
236 Leu Glu Trp Met Gly Tyr Ile His Tyr Ser Gly Ser Thr Asn Tyr
237          50          55          60
239 Asn Pro Ser Leu Lys Arg Arg Ile Ser Ile Thr Arg Asp Thr Ser
240          65          70          75
242 Lys Asn Gln Phe Phe Leu Gln Leu Asn Ser Val Thr Thr Glu Asp
243          80          85          90
245 Thr Ala Thr Tyr Tyr Cys Ala Arg Gly Ser Ile Tyr Tyr Tyr Gly
246          95          100          105
248 Ser Arg Tyr Arg Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val
249          110          115          120
251 Thr Val Ser Ser Ala Lys Arg His Pro His Leu Ser Ile His Trp
252          125          130          135
254 Pro Gly
257 <210> SEQ ID NO: 8
258 <211> LENGTH: 453
259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial sequence ✓
262 <220> FEATURE:
263 <223> OTHER INFORMATION: humanized maell, version 1 heavy chain ✓
265 <400> SEQUENCE: 8
266 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
267 1          5          10          15
269 Gly Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Tyr Ser Ile Thr
270          20          25          30
272 Ser Gly Tyr Ser Trp Asn Trp Ile Arg Gln Ala Pro Gly Lys Gly
273          35          40          45
275 Leu Glu Trp Val Ala Ser Ile Thr Tyr Asp Gly Ser Thr Asn Tyr
276          50          55          60
278 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser
279          65          70          75
281 Lys Asn Thr Phe Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
282          80          85          90
284 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Ser His Tyr Phe Gly His
285          95          100          105
287 Trp His Phe Ala Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser

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288		110		115		120
290	Ser Ala Ser Thr	Lys Gly Lys Gly Pro	Ser Val Phe Pro Leu	Ala		
291		125		130		135
293	Pro Ser Ser Lys	Ser Thr Ser Gly Gly	Thr Ala Ala Leu Gly	Cys		
294		140		145		150
296	Leu Val Lys Asp	Tyr Phe Pro Glu Pro	Val Thr Val Ser Trp	Asn		
297		155		160		165
299	Ser Gly Ala Leu	Thr Ser Gly Val His	Thr Phe Pro Ala Val	Leu		
300		170		175		180
302	Gln Ser Ser Gly	Leu Tyr Ser Leu Ser	Ser Val Val Thr Val	Pro		
303		185		190		195
305	Ser Ser Ser Leu	Gly Thr Gln Thr Tyr	Ile Cys Asn Val Asn	His		
306		200		205		210
308	Lys Pro Ser Asn	Thr Lys Val Asp Lys	Lys Val Glu Pro Lys	Ser		
309		215		220		225
311	Cys Asp Lys Thr	His Thr Cys Pro Pro	Cys Pro Ala Pro Glu	Leu		
312		230		235		240
314	Leu Gly Gly Pro	Ser Val Phe Leu Phe	Pro Pro Lys Pro Lys	Asp		
315		245		250		255
317	Thr Leu Met Ile	Ser Arg Thr Pro Glu	Val Thr Cys Val Val	Val		
318		260		265		270
320	Asp Val Ser His	Glu Asp Pro Glu Val	Lys Phe Asn Trp Tyr	Val		
321		275		280		285
323	Asp Gly Val Glu	Val His Asn Ala Lys	Thr Lys Pro Arg Glu	Glu		
324		290		295		300
326	Gln Tyr Asn Ser	Thr Tyr Arg Val Val	Ser Val Leu Thr Val	Leu		
327		305		310		315
329	His Gln Asp Trp	Leu Asn Gly Lys Glu	Tyr Lys Cys Lys Val	Ser		
330		320		325		330
332	Asn Lys Ala Leu	Pro Ala Pro Ile Glu	Lys Thr Ile Ser Lys	Ala		
333		335		340		345
335	Lys Gly Gln Pro	Arg Glu Pro Gln Val	Tyr Thr Leu Pro Pro	Ser		
336		350		355		360
338	Arg Glu Glu Met	Thr Lys Asn Gln Val	Ser Leu Thr Cys Leu	Val		
339		365		370		375
341	Lys Gly Phe Tyr	Pro Ser Asp Ile Ala	Val Glu Trp Glu Ser	Asn		
342		380		385		390
344	Gly Gln Pro Glu	Asn Asn Tyr Lys Thr	Thr Pro Pro Val Leu	Asp		
345		395		400		405
347	Ser Asp Gly Ser	Phe Phe Leu Tyr Ser	Lys Leu Thr Val Asp	Lys		
348		410		415		420
350	Ser Arg Trp Gln	Gln Gly Asn Val Phe	Ser Cys Ser Val Met	His		
351		425		430		435
353	Glu Ala Leu His	Asn His Tyr Thr Gln	Lys Ser Leu Ser Leu	Ser		
354		440		445		450
356	Pro Gly Lys					
359	<210>	SEQ ID NO: 9				
360	<211>	LENGTH: 218				
361	<212>	TYPE: PRT				

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/925,179

DATE: 08/21/2001

TIME: 11:53:58

Input Set : A:\P0718P2C1D1C1US.txt

Output Set: N:\CRF3\08162001\I925179.raw

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